

## Standards for Mathematical Practices

<b>Teacher(s):</b>	<b>Mathematical Topic(s):</b>	<b>Date:</b>
<p style="text-align: center;"><b>1. Makes sense of problems and perseveres in solving them</b></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Understands the meaning of the problem and looks for entry points to its solution  <input type="checkbox"/> Analyzes information (givens, constraints, relationships, goals)  <input type="checkbox"/> Designs a plan  <hr style="width: 100%;"/> Comments: </div> <div style="width: 48%;"> <input type="checkbox"/> Monitors and evaluates the progress and changes course as necessary  <input type="checkbox"/> Checks their answers to problems and ask, “Does this make sense?” </div> </div>		
<p><b>2. Reason abstractly and quantitatively</b></p> <input type="checkbox"/> Makes sense of quantities and relationships <input type="checkbox"/> Represents a problem symbolically <input type="checkbox"/> Considers the units involved <input type="checkbox"/> Understands and uses properties of operations <hr style="width: 100%;"/> Comments:	<p><b>4. Model with mathematics.</b></p> <input type="checkbox"/> Apply reasoning to create a plan or analyze a real world problem <input type="checkbox"/> Applies formulas/equations <input type="checkbox"/> Makes assumptions and approximations to make a problem simpler <input type="checkbox"/> Checks to see if an answer makes sense and changes a model when necessary <hr style="width: 100%;"/> Comments:	<p><b>8. Look for and express regularity in repeated reasoning</b></p> <input type="checkbox"/> Notices repeated calculations and looks for general methods and shortcuts <input type="checkbox"/> Continually evaluates the reasonableness of their results while attending to details and makes generalizations based on findings <input type="checkbox"/> Solves problems arising in everyday life <hr style="width: 100%;"/> Comments:
<p><b>3. Construct viable arguments and critique the reasoning of others</b></p> <input type="checkbox"/> Uses definitions and previously established causes/effects (results) in constructing arguments <input type="checkbox"/> Makes conjectures and attempts to prove or disprove through examples and counterexamples <input type="checkbox"/> Communicates and defends their mathematical reasoning using objects, drawings, diagrams, actions <input type="checkbox"/> Listens or reads the arguments of others <input type="checkbox"/> Decide if the arguments of others make sense <input type="checkbox"/> Ask useful questions to clarify or improve the arguments <hr style="width: 100%;"/> Comments:	<p><b>5. Use appropriate tools strategically.</b></p> <input type="checkbox"/> Identifies relevant external math resources (digital content on a website) and uses them to pose or solve problems <input type="checkbox"/> Makes sound decisions about the use of specific tools. Examples may include: <div style="margin-left: 20px;"> <input type="checkbox"/> Calculator  <input type="checkbox"/> Concrete models  <input type="checkbox"/> Digital Technology  <input type="checkbox"/> Pencil/paper  <input type="checkbox"/> Ruler, compass, protractor </div> <input type="checkbox"/> Uses technological tools to explore and deepen understanding of concepts <hr style="width: 100%;"/> Comments:	<p><b>7. Look for and make use of structure.</b></p> <input type="checkbox"/> Looks for patterns or structure <input type="checkbox"/> Recognize the significance in concepts and models and can apply strategies for solving related problems <input type="checkbox"/> Looks for the big picture or overview <hr style="width: 100%;"/> Comments:
<p style="text-align: center;"><b>6. Attend to precision.</b></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Communicates precisely using clear definitions  <input type="checkbox"/> States the meaning of symbols, calculates accurately and efficiently  <hr style="width: 100%;"/> Comments: </div> <div style="width: 48%;"> <input type="checkbox"/> Provides carefully formulated explanations  <input type="checkbox"/> Labels accurately when measuring and graphing </div> </div>		